A STUDY OF NEW ENGLAND SEISMICITY

Quarterly Earthquake Report

January-March, 2007

Weston Observatory
New England Seismic Network
381 Concord Road
Weston, MA 02493

NEW ENGLAND SEISMIC NETWORK

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Notice

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Introduction

The New England Seismic Network (NESN) is operated by the Weston Observatory (WES) of Boston College. The mission of the NESN is to operate and maintain a regional seismic network with digital recording of seismic ground motions for the following purposes: 1) to determine the location and magnitude of earthquakes in and adjacent to New England and report felt events to public safety agencies, 2) to define the crust and upper mantle structure of the northeastern United States, 3) to derive the source parameters of New England earthquakes, and 4) to estimate the seismic hazard in the area.

This report summarizes the work of the NESN for the period January-March, 2007. It includes a brief summary of the network's equipment and operation, and a short discussion of data management procedures. A list of participating personnel is given in Table 1. There were 11 earthquakes that occurred within or near the network during this reporting period. Phase information for these earthquakes is included in this report.

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Current Network Operation and Status

The New England Seismic Network of Weston Observatory of Boston College currently consists of 12 broadband three-component and 8 analog strong-motion stations. The coordinates of the stations are given in Table 2, and maps of the weak- and strong-motion networks are shown in Figures 1 and 2, respectively. The 12 stations consist of Guralp CMG-40T three-component sensors. Ground motions recorded by these sensors are digitized at 40 sps with 16-bit resolution. Additional gain-ranging provides 126 dB dynamic range. These stations are operated in dialup mode with waveform segments of suspected events transmitted in digital mode to Weston Observatory for analysis and archiving. Weston Observatory also maintains 8 SMA-1 strong-motion instruments in New England.

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Seismicity

There were 11 earthquakes that occurred in or adjacent to the NESN during this reporting period. A summary of the location data is given in Table 3. Figure 3 shows the locations of these events. Figure 4 shows the locations of all events since the beginning of network operation in October, 1975.
Table 4 gives the station phase data and detailed hypocenter data for each event listed in Table 3. In addition to NESN data, arrival time and magnitude data sometimes are contributed for seismic stations operated by the Geological Survey of Canada (GSC), the Lamont-Doherty Cooperative Seismographic Network, and the US National Seismic Network. Final locations for this section were computed using the program HYPO78. For regional events (those too far from the NESN to obtain accurate locations and magnitudes) phase data are given for NESN stations, but the entry in Table 3 lists the hypocenter and geographic location information adopted from the authoritative network. Accordingly, the epicenter is plotted on the maps using the entry from Table 3.

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Data Management

Recent event locations are available at http://aki.bc.edu/cgi-bin/NESN/recent_events.pl. Waveform data are saved in Nanometrics, ASCII, and SEED formats and are available by contacting, Anastasia Macherides Moulis, via email. Earthquake lists can be found at www.bc.edu/research/westonobservatory/northeast/eqcatalogs/. Currently available on the Weston Observatory web page is the full catalog of northeastern U.S. earthquake activity to the present time. This will be updated as new Northeastern U.S. Seismic Network Quarterly Earthquake Reports are produced.

For more information on matters discussed in this report or general earthquake information (reports, maps, catalogs, etc.) consult our web site www.bc.edu/westonobservatory or contact:

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Explanation of Tables

Table 1: List of personnel operating the NESN

Table 2: List of Seismic and Strong Motion Stations

1. Code = station name
2. Lat = station latitude, degrees north
3. Long = station longitude, degrees west
4. Elev = station elevation in meters
5. Location = geographic location
6. Operator = network operator

Table 3: Earthquake Hypocenter List

1. Date = date event occurred, Yr (year)/Mo (month)/Dy (day)
2. Time = origin time of event, Hr (hour):Mn (minute):Sec (second) in UCT (Universal Coordinated Time, same as Greenwich Mean Time)
3. Lat = event location, latitude north in degrees
4. Long = event location, longitude west in degrees
5. Depth = event depth in kilometers
6. Mn = Nuttli Magnitude
7. Mc = Coda Magnitude
8. Int = event epicentral intensity
9. Location = event geographic location

Table 4: Earthquake detailed hypocenter and phase data list

1. Geographic location
2. DATE = date event occurred, yr/mo/dy (year/month/day)
3. ORIGIN = event origin time (UCT) in hours, minutes, and seconds
4. LAT N = latitude north in degrees and minutes
5. LONG W = longitude west in degrees and minutes
6. DEPTH = event depth in kilometers
7. MN = Nuttli Lg phase magnitude with amplitude divided by period
8. MC = signal duration (coda) magnitude

   WES: 2.23 Log(FMP) + 0.12Log(Dist) - 2.36 (Rosario, 1979)
   MIT: 2.21 Log(FMP) - 1.7 (Chaplin *et al.*, 1980)

9. ML = local magnitude

   WES: calculated from Wood-Anderson seismograms (Ebel, 1982)
   GSC (Geological Survey of Canada): Richter Lg magnitude

10. GAP = largest azimuthal separation, in degrees, between stations
11. RMS = root mean square error of travel time residual in seconds
12. ERH = standard error of epicenter in kilometers
13. ERZ = standard error of event depth in kilometers
14. Q = solution quality of hypocenter

    A = excellent
    B = good
    C = fair
    D = poor

Table Body: earthquake phase data

1. STN = station name
2. DIST = epicentral distance in kilometers
3. AZM = azimuthal angle in degrees measured clockwise between true north and vector pointing from epicenter to station
4. Description of onset of phase arrival

   I = impulsive
   E = emergent

5. R = phase

   P = first P arrival
   S = first S arrival

6. M = first motion direction of phase arrival

   U = up or compression
   D = down or dilatation

7. K = weight of arrival

   0 = full weight (1.0)
   1 = 0.75 weight
   2 = 0.50 weight
   3 = 0.25 weight
   4 = no weight (0.0)

8. HRMN = hour and minute of phase arriva l
9. SEC = second of phase arrival
10. TCAL = calculated travel time of phase in seconds
11. RES = travel time residual (error) of phase arrival
12. WT = weight of phase used in hypocentral solution
13. AMX = peak-to-peak ground motion, in millimicrons, of the maximum envelope amplitude of vertical-component signal, corrected for system response
14. PRX = period in seconds of the signal from which amplitude was measured
15. XMAG = Nuttli magnitude recorded at station
16. FMP = signal duration (coda), in seconds, measured from first P arrival
17. FMAG = coda magnitude recorded at station

Table 5: Microearthquakes and other non-locatable events

1. Date = date event occurred, Yr (year)/Mo (month)/Dy (day)
2. Sta = nearest station recording event
3. Arrival Time = phase arrival time, Hr (hour):Mn (minute):Sec (second)

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TABLE 1

WESTON OBSERVATORY PERSONNEL

Name	Position	voice phone	email address
John E. Ebel	Observatory Director, Seismologist, Principal Investigator	617-552-8319	ebel@bc.edu
Alan Kafka	Research Seismologist	617-552-8300	kafka@bc.edu
Anastasia Macherides Moulis	Seismologist, Analyst	617-552-8325	macherid@bc.edu
Dina Smith	Associate Director of Operations, Seismologist	617-552-8335	dina.smith.1@bc.edu
Michael Hagerty	New England Seismic Network Manager, Seismologist	617-552-8337	hagertmb@bc.edu
Weston Observatory		617-552-8300 617-552-8388 (FAX)	

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TABLE 2

SEISMIC STATIONS OF THE NEW ENGLAND SEISMIC NETWORK

Code	Lat	Long	Elev (m)	Location	Operator
BCX *	42.3350	-71.1705	61.0	Chestnut Hill, MA	WES
BRYW	41.9199	-71.5342	107	Smithfield, RI	WES
FFD	43.4700	-71.6539	131	Franklin Falls Dam, NH	WES
HNH	43.7051	-72.2865	180	Hanover, NH	WES
QUA2	42.2790	-72.3521	168	Belchertown, MA	WES
TRY	42.7305	-73.6658	131	Troy, NY	WES
EMMW	44.7101	-67.4580	34	Machias, ME	WES
VT1	44.3317	-72.7536	125	Waterbury, VT	WES
WES	42.3848	-71.3218	60	Weston, MA	WES
WVL	44.5648	-69.6575	85	Waterville, ME	WES
YLE	41.3165	-72.9209	10	New Haven, CT	WES
PQI	46.6701	-68.0133	175	Presque Isle, ME	WES

* = not in operation during this quarter

STRONG MOTION STATIONS OF THE NEW ENGLAND SEISMIC NETWORK

Code	Lat	Long	Location	Operator
SM1	44.90	-67.25	Dennysville, ME	WES
SM2	44.49	-73.10	Essex Junction, VT	WES
SM3	41.45	-71.33	Newport, RI	WES
SM4	42.38	-71.32	Weston, MA	WES
SM5	42.66	-71.30	Lowell, MA	WES
SM6	42.30	-71.34	Natick, MA	WES
SM7	42.39	-71.54	Hudson, MA	WES
SM8	44.48	-69.61	North Vassalboro, ME	WES

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TABLE 3

NEW ENGLAND AND ADJACENT REGIONS
January-March, 2007

Date M/D/Y	Time (UTC) Hr:Mn:Sec	Lat	Long	Depth (km)	Mn	Mc	Int	Location
01/06/2007	04:08:46.89	46.99	-76.23	18.00	3.1			PQ, 70KM NW of Ferme-Nueve
02/01/2007	01:04:42.23	43.86	-73.31	05.00	1.5	2.2		VT, 20KM SW of Middlebury
02/01/2007	16:48:45.58	44.27	-69.87	08.49	2.1	2.6		ME, 8.8KM SW of Augusta
02/06/2007	06:56:17.59	46.91	-68.63	09.72	1.3^			ME, 8KM SW of Winterville
02/25/2007	03:44:45.12	42.15	-65.88	18.45	3.0	3.2		Atlantic Ocean, 420KM E of Boston, MA
02/26/2007	07:11:43.23	44.64	-68.46	10.47	1.7	2.5		ME, 10.8KM NNW of Ellsworth
03/04/2007	09:18:34.12	44.02	-68.46	13.80	2.2	2.4		ME, Offshore, 16KM SE of Isle Au Haut
03/11/2007	02:33:13.74	44.95	-73.84	10.85	2.2^	2.5*		NY, 40KM NW of Plattsburgh
03/13/2007	05:21:55.51	43.35	-71.67	03.16	1.4	2.0		NH, 10KM SSW of Franklin
03/21/2007	15:55:37.95	43.76	-71.58	08.84	2.6	2.7		NH, 9KM E of Plymouth
03/23/2007	08:36:20.13	43.46	-72.21	09.25	0.8			NH, 15KM NE of Claremont

* indicates magnitude as calculated by Lamont Doherty Earth Observatory
^ indicates magnitude as calculated by Earthquakes Canada (Natural Resources Canada)

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EARTHQUAKE PHASE DATA LIST
NEW ENGLAND AND ADJACENT REGIONS
January-March, 2007

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A7106A.XX
NORTHERN NY AND ADIRONDACKS
07JAN06 CANADA, PQ, 70KM NW OF FERME-NUEVE
  DATE      ORIGIN     LAT N     LONG W    DEPTH    MN  MC   ML GAP    RMS  ERH  ERZ Q
  70106   4 8 46.89 46-59.47   76-14.05   20.98   3.1  .0       110  1.15  2.2  2.4 D
  STN   DIST AZM   RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
  GRQ   51.4 146   P 0   4 8 55.01    8.12    8.53   -.46 1.87
                   S 0   4 8 61.87   14.98   15.18   -.29 1.87
 CRLO 137.8 220   P 0   4 9  7.52   20.63   21.30   -.70 1.54
                   S 0   4 9 25.02   38.13   37.91    .17 1.54
  TRQ 154.5 124   PC0   4 9 10.07   23.18   23.45   -.27 1.48
                   S 0   4 9 30.07   43.18   41.75   1.43 1.47
  GAC 154.5 158   P 0   4 9 10.53   23.64   23.47    .17 1.48
                   S 0   4 9 28.70   41.81   41.77    .02 1.48
 VLDQ 154.8 324   P 0   4 9 12.02   25.13   23.49   1.62 1.45
                   S 0   4 9 31.90   45.01   41.81   3.16 1.25
 PEMO 165.6 208   P 0   4 9 11.25   24.36   24.83   -.50 1.44
                   S 0   4 9 31.44   44.55   44.19    .31 1.44
 ALGO 180.9 230   P 0   4 9 13.67   26.78   26.72    .02 1.38
                   S 0   4 9 35.22   48.33   47.56    .70 1.38
  OTT 182.0 167   P 0   4 9 14.63   27.74   26.85    .88 1.38
                   S 0   4 9 36.15   49.26   47.79   1.45 1.36
 ALFO 183.8 146   P 0   4 9 14.23   27.34   27.07    .27 1.37
                   S 0   4 9 36.71   49.82   48.19   1.63 1.34
 MRHQ 198.1 128   P 0   4 9 15.22   28.33   28.84   -.58 1.32
                   S 0   4 9 39.85   52.96   51.34   1.50 1.30
 PLVO 226.5 197   P 0   4 9 18.90   32.01   32.35   -.34 1.21
                   S 0   4 9 43.90   57.01   57.58   -.57 1.21
  WBO 233.4 161   P 0   4 9 20.25   33.36   33.21    .15 1.19
                   S 0   4 9 50.14   63.25   59.11   4.13  .74
 MPPO 246.9 181   P 0   4 9 21.62   34.73   34.87   -.16 1.14
                   S 0   4 9 47.55   60.66   62.07 -1.44 1.11
 BANO 255.4 211   P 0   4 9 22.52   35.63   35.92   -.35 1.10
                   S 0   4 9 50.18   63.29   63.93   -.75 1.10
  MNT 260.8 129   P 0   4 9 24.02   37.13   36.58    .53 1.08
  DPQ 266.2  97   P 0   4 9 22.97   36.08   37.25 -1.19 1.05
                   S 0   4 9 52.33   65.44   66.30   -.91 1.05
  PTN 286.2 160   P 0   4 9 26.50   39.61   39.72   -.14  .99
 LONY 293.2 154   P 0   4 9 27.10   40.21   40.58   -.44  .96
 DELO 295.3 201   P 0   4 9 27.37   40.48   40.84   -.40  .95
                   S 0   4 9 58.38   71.49   72.69 -1.27  .94
 KGNO 307.9 184   P 0   4 9 30.55   43.66   42.40   1.25  .90
                   S 0   4 9 60.27   73.38   75.47 -2.11  .86
 KILO 310.8 303   P 0   4 9 29.13   42.24   42.76   -.57  .90
                   S 0   4 9 62.12   75.23   76.12   -.97  .89
 FRNY 315.6 139   P 0   4 9 29.92   43.03   43.35   -.36  .88
 SADO 334.5 222   P 0   4 9 32.42   45.53   45.69   -.19  .81
                   S 0   4 9 68.40   81.51   81.32    .12  .81
 CTNY 336.9 172   P 0   4 9 33.87   46.98   45.98    .97  .80
 PECO 344.9 190   P 0   4 9 33.69   46.80   46.97   -.19  .77
                   S 0   4 9 68.75   81.86   83.60 -1.78  .74
 KLBO 356.8 239   P 0   4 9 35.28   48.39   48.44   -.08  .72
                   S 0   4 9 73.52   86.63   86.22    .35  .72
  MOQ 359.5 121   P 0   4 9 35.63   48.74   48.76   -.16  .71
                   S 0   4 9 73.79   86.90   86.80   -.15  .71
  NCB 370.4 155   P 0   4 9 36.70   49.81   50.11   -.40  .67
                   S 0   4 9 75.87   88.98   89.20   -.40  .67
  DAQ 391.4  74   P 0   4 9 38.59   51.70   52.70 -1.16  .59
 MALO 426.4 322   P 0   4 9 42.59   55.70   57.03 -1.38  .45
                   S 0   4 9 84.96   98.07  101.51 -3.53  .34
 TORO 447.6 213   S 0   4 9 91.27  104.38  106.17 -1.81  .37
  LMQ 451.1  82   P 0   4 9 44.62   57.73   60.07 -2.41  .34
                   S 0   4 9 89.67  102.78  106.93 -4.28  .16
 TOBO 453.6 244   P 0   4 9 47.87   60.98   60.39    .56  .36
                   S 0   4 9 93.31  106.42  107.49 -1.13  .36
 LBNH 454.4 132   P 0   4 9 44.10   57.21   60.49 -3.34  .28
  HNH 478.8 140   S 0  410 53.60  126.71  113.02 13.63  .00
  EFO 496.7 209   P 0   4 9 54.63   67.74   65.70  2.01  .19
  TRY 515.1 157   S 0  410 54.80  127.91  121.01  6.81  .00  23 .30  2.8
  FFD 531.7 137 EP 0  410 10.90   84.01   70.02 13.97  .00 112 .30  3.5
                   S 0  410 68.40  141.51  124.64 16.83  .00
 QUA2 607.7 150   S 0  410 85.60  158.71  141.34 17.32  .00
  CNQ 659.9  67   P 0  410 10.26   83.37   85.85 -2.51  .00
                   S 0  410 72.49  145.60  152.82 -7.27  .00
 UCCT 659.9 151   S 0  411 41.10  174.21  152.82 21.34  .00
  MNQ 675.0  54   P 0  410 12.39   85.50   87.71 -2.30  .00
                   S 0  410 77.59  150.70  156.13 -5.59  .00
 LG4Q 753.6  12   P 0  410 21.01   94.12   97.43 -3.33  .00
                   S 0  410 92.26  165.37  173.42 -8.10  .00
  SMQ 789.6  63   P 0  410 26.30   99.41  101.87 -2.51  .00
 VIMO 843.3 320   P 0  410 33.99  107.10  108.50 -1.41  .00
A7201A.XX
NORTHERN NY AND ADIRONDACKS
07FEB01 VT, 20KM (12.4MI) SW OF MIDDLEBURY
  DATE      ORIGIN     LAT N     LONG W    DEPTH    MN  MC   ML GAP    RMS  ERH  ERZ Q
  70201   1 4 42.23 43-51.68   73-18.62    5.00  1.5 2.2       66   .46  1.0  2.6 C
  STN   DIST AZM   RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
 ACCN  60.4 209   P 0   1 4 51.61    9.38    9.40   -.08 1.39
                   S 0   1 4 59.16   16.93   16.73    .10 1.39
  NCB  74.4 280   P 0   1 4 53.56   11.33   11.52   -.29 1.34                78  2.2
                   S 0   1 4 62.76   20.53   20.50   -.15 1.35
  HNH  84.2 102 EP 0   1 4 54.78   12.55   13.01   -.49 1.28  13 .09  1.4
                   S 0   1 4 64.90   22.67   23.15   -.54 1.28
 FRNY 110.4 348   P 0   1 4 58.61   16.38   16.98   -.64 1.20
                   S 0   1 4 72.64   30.41   30.23    .11 1.25
 LBNH 118.6  69   P 0   1 4 60.70   18.47   18.21    .20 1.23
                   S 0   1 4 74.83   32.60   32.42    .07 1.23
 LONY 132.1 310   P 0   1 4 62.22   19.99   20.26   -.34 1.17
                   S 0   1 4 78.15   35.92   36.07   -.27 1.17
  FFD 140.4 108 EP 2   1 5  5.19   22.96   21.53   1.41  .29
                   S 2   1 5 22.13   39.90   38.32   1.54  .17
  PTN 155.1 300   P 0   1 4 66.23   24.00   23.75    .22 1.12
                   S 0   1 4 84.61   42.38   42.28    .05 1.12
  MOQ 181.7  27 EP 0   1 5 10.31   28.08   27.78    .16 1.05
                   S 1   1 5 32.92   50.69   49.45    .99  .66
 CTNY 188.1 274   P 0   1 4 71.14   28.91   28.76    .12 1.03
                   S 0   1 4 94.21   51.98   51.19    .74  .97
 QUA2 192.3 156 EP 1   1 5 12.77   30.54   29.39   1.12  .59   8 .15  1.7
                   S 0   1 5 34.12   51.89   52.31   -.48  .99
  WES 230.5 135 EP 2   1 5 15.00   32.77   34.24 -1.48  .13   4 .20  1.5
                   S 0   1 5 42.90   60.67   60.95   -.30  .90
```

```
 UCCT 246.2 159   P 0  1 5 18.58  36.35  36.18   .14  .86
                  S 0  1 5 47.21  64.98  64.41   .52  .84
A7201B.XX
SOUTHEAST MAINE CRUSTAL MODEL
07FEB01 ME, 8.8KM (5.5MI) SW OF AUGUSTA
Felt in  Monmouth, ME (between Lewiston and Augusta)
  DATE     ORIGIN     LAT N     LONG W    DEPTH    MN  MC  ML GAP   RMS  ERH  ERZ Q
  70201 1648 45.58 44-16.19  69-52.10    8.49  2.1 2.6     134   .32  1.1  1.2 C
  STN   DIST AZM   RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
  WVL   33.1  29 EP 0 1648 51.03    5.45    5.56   -.12 1.79  90 .18  1.7
                 S 0 1648 55.76   10.18    9.90    .26 1.77
 PKME 119.6   22 EP 0 1648 64.80   19.22   19.25   -.04 1.49               120  2.7
                 S 0 1648 79.71   34.13   34.26   -.16 1.49
 LBNH 164.2 269 EP 0 1649 10.98   25.40   25.69   -.35 1.34                80  2.4
                 S 0 1649 29.50   43.92   45.73 -1.91  .08
 EMMW 197.8   76 EP 0 1649 15.68   30.10   29.84    .25 1.21  45 .13  2.5
                 S 0 1649 38.76   53.18   53.12    .05 1.22
  HNH 203.9 252 EP 0 1649 15.61   30.03   30.58   -.58 1.18  35 .17  2.3
                 S 0 1649 40.05   54.47   54.44   -.01 1.20
  MOQ 221.5 302 EP 0 1649 18.72   33.14   32.76    .25 1.13
                 S 0 1649 44.08   58.50   58.31   -.05 1.14
  WES 240.3 209  S 0 1649 48.01   62.43   62.45   -.04 1.07  18 .19  2.1
  GGN 259.2   69 EP 0 1649 22.77   37.19   37.41   -.23 1.01               123  2.8
                 S 0 1649 51.80   66.22   66.59   -.38 1.01
  NCB 350.2 265 EP 0 1649 34.50   48.92   48.65    .17  .69
                 S 0 1649 73.10   87.52   86.60    .74  .62
  LMQ 366.1 354  S 0 1649 76.00   90.42   90.10    .20  .63
 LONY 377.6 276 EP 0 1649 38.40   52.82   52.03    .72  .55
                 S 0 1649 78.40   92.82   92.62    .08  .60
  LMN 435.5   66 EP 0 1649 45.00   59.42   59.19    .18  .40
                 S 0 1649 91.60 106.02 105.35    .57  .38
A7206A.XX
NORTHWEST MAINE CRUSTAL STRUCTURE
07FEB06 ME, 8KM (5MI) SW OF WINTERVILLE
  DATE     ORIGIN     LAT N     LONG W    DEPTH    MN  MC  ML GAP   RMS  ERH  ERZ Q
  70206   656 17.59 46-54.38  68-37.95    9.72   .0  .0     175   .59  5.9  4.0 D
  STN   DIST AZM   RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
  PQI   54.1 119 EP 0  656 26.50    8.91    8.93   -.05 1.26
                 ES 0  656 33.05   15.46   15.89   -.48 1.25
  A21 119.4 318   P 0  656 37.77   20.18   19.27    .89 1.02
                  S 0  656 51.93   34.34   34.30    .01 1.10
  A64 139.7 317   P 0  656 40.23   22.64   22.49    .13 1.05
                  S 0  656 57.68   40.09   40.03    .02 1.05
  A61 140.7 308   P 0  656 40.50   22.91   22.66    .19 1.04
                  S 0  656 56.90   39.31   40.33 -1.13  .88
  LMQ 146.9 299   P 0  656 41.72   24.13   23.64    .42 1.02
                  S 0  656 58.70   41.11   42.08 -1.09  .90
  A54 148.1 294   P 0  656 41.84   24.25   23.83    .35 1.01
                  S 0  656 60.28   42.69   42.42    .16 1.02
  DAQ 229.5 301   P 0  656 53.41   35.82   34.31   1.34  .59
                  S 0  656 78.50   60.91   61.08   -.46  .81
A7225A.XX
SOUTHEAST MAINE CRUSTAL MODEL
07FEB25 ATLANTIC OCEAN, 170KM SSW OF SHELBURNE NOVA SCOTIA, 420KM E OF BOSTON MA
  DATE     ORIGIN     LAT N     LONG W    DEPTH    MN  MC  ML GAP   RMS  ERH  ERZ Q
  70225   344 45.12 42- 8.83  65-52.70   18.45  3.0 3.2     222   .42  2.5  3.4 C
  STN   DIST AZM   RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
 EMMW 312.2 336 EP 0  345 28.40   43.28   42.96    .31 2.51  79 .20  3.0 197  3.2
                 ES 0  345 61.64   76.52   76.47    .04 2.54
  HAL 332.9   34  P 0  345 30.98   45.86   45.53    .33 2.29
                  S 0  345 65.63   80.51   81.04   -.54 2.22
  GGN 338.7 347   P 0  345 31.47   46.35   46.23    .11 2.25
                  S 0  345 67.12   82.00   82.29   -.31 2.23
  WVL 405.7 311                                          81 .30  3.1
  LMN 420.5   12  P 3  345 42.82   57.70   56.34   1.30  .12
                  S 2  345 86.40 101.28 100.28    .89  .58
 PKME 442.4 322   P 0  345 44.32   59.20   59.03    .15 1.15
                  S 1  345 89.45 104.33 105.08   -.78  .75
  WES 449.7 273 EP 0  345 44.40   59.28   59.94   -.66  .99  30 .26  2.8
                 ES 0  345 91.70 106.58 106.69   -.12 1.07
 BRYW 469.3 267 EP 3  345 48.80   63.68   62.36   1.26  .09  33 .20  3.0
                 ES 4  345 93.80 108.68 111.00 -2.42  .00
  HRV 470.1 275 EP 0  345 47.90   62.78   62.46    .30  .84
                 ES 3  345 97.60 112.48 111.17   1.26  .09
  FFD 494.8 287 EP 3  345 51.60   66.48   65.51    .95  .12
                 ES 4  345 99.70 114.58 116.61 -2.06  .00
  GBN 504.6   44  P 3  345 50.63   65.51   66.72 -1.21  .05
 UCCT 527.4 266 EP 3  345 53.40   68.28   69.53 -1.27  .02
 QUA2 534.9 272 EP 3  345 57.00   71.88   70.46   1.39  .01  44 .40  2.9
 LBNH 543.8 295 EP 0  345 57.05   71.93   71.55    .32  .07
  HNH 551.3 288 EP 4  346   .30   75.18   72.48   2.67  .00  45 .30  3.1
                 ES 4  346 77.20 152.08 129.02 23.01  .00
 BATG 570.2 359   P 0  346   .77   75.65   74.82    .77  .00
                  S 3  346 57.23 132.11 133.18 -1.17  .00
  MOQ 622.8 304   P 4  345 59.54   74.42   81.31 -7.02  .00
  A21 687.0 334   P 4  346 16.43   91.31   89.23   2.07  .00
                  S 0  346 83.38 158.26 158.84   -.59  .00
  LMQ 695.8 330   P 3  346 16.67   91.55   90.33   1.16  .00
                  S 0  346 86.85 161.73 160.78    .83  .00
  NCB 709.0 287   P 4  346 12.17   87.05   91.95 -5.00  .00
                  S 4  346 82.30 157.18 163.67 -6.67  .00
  DPQ 745.5 313   P 3  346 23.07   97.95   96.46   1.46  .00
 LONY 756.8 291 EP 4  347 11.00 145.88   97.85 47.96  .00
                 ES 4  347 52.00 186.88 174.17 12.58  .00
  DAQ 772.1 327   P 2  346 25.93 100.81   99.75    .90  .00
 SCHQ1412.2 357   P 4  347 41.97 176.85 178.77 -2.00  .00
A7226A.XX
SOUTHEAST MAINE CRUSTAL MODEL
07FEB26 ME, 10.8KM (6.7MI) NNW OF ELLSWORTH
  DATE     ORIGIN     LAT N     LONG W    DEPTH    MN  MC  ML GAP   RMS  ERH  ERZ Q
  70226   711 43.23 44-38.68  68-27.53   10.47  1.7 2.5     158   .47  1.6  1.5 C
  STN   DIST AZM   RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
 EMMW  79.7   85 EP 0  711 56.28   13.05   12.94    .09 1.71  43 .12  1.8  99  2.4
                 S 0  711 66.19   22.96   23.04   -.10 1.71
 PKME  95.2 316 EP 0  711 59.28   16.05   15.39    .63 1.57               111  2.6
                 ES 0  711 70.73   27.50   27.40    .06 1.66
  WVL  96.7 262 EP 0  711 59.18   15.95   15.64    .29 1.63  18 .10  1.6
                 ES 0  711 70.28   27.05   27.84   -.82 1.48
  GGN 139.5  68  P 0  712  6.07   22.84   22.43    .40 1.48
                  S 0  712 22.42   39.19   39.92   -.76 1.37
 LBNH 279.9 261 EP 0  712 23.00   39.77   39.77   -.06  .98
                 ES 0  712 53.80   70.57   70.79   -.33  .97
  FFD 287.2 243 EP 0  712 24.10   40.87   40.67    .17  .96
                 ES 0  712 56.10   72.87   72.40    .43  .94
  MOQ 308.3 284  P 0  712 26.70   43.47   43.28    .05  .88
                 S 3  712 58.93   75.70   77.04 -1.59  .03
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   LMN 316.8  65  P 0  712 28.27  45.04  44.33   .64  .80
                  S 0  712 61.77  78.54  78.91  -.48  .83
  BATG 346.6  32  P 3  712 32.29  49.06  48.01   .99  .14
                  S 3  712 67.62  84.39  85.45 -1.17  .12
   A54 347.2 334  S 4  712 62.32  79.09  85.57 -6.60  .00
   A21 353.0 344  S 3  712 71.31  88.08  86.87  1.19  .10
   A64 370.5 343  S 0  712 73.46  90.23  90.72  -.53  .63
   DPQ 405.4 304  S 4  712 77.77  94.54  98.37 -3.89  .00
   GBN 554.2  81  S 0  713 54.84 131.61 131.07   .51  .00
A7304A.XX
SOUTHEAST MAINE CRUSTAL MODEL
07MAR04 ME, OFFSHORE, 16KM (10MI) SE OF ISLE AU HAUT
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
  70304  918 34.12 44- 1.17  68-27.37  13.80  2.2 2.4     189   .43  2.1  1.7 C
  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG
 EMMW 110.5  46 EP 0  918 51.92  17.80  17.86  -.07 1.33  61 .11  2.2  78  2.3
                ES 0  918 65.46  31.34  31.80  -.47 1.29
  WVL 112.0 300 EP 0  918 53.03  18.91  18.10   .80 1.21  75 .17  2.2
                ES 0  918 66.16  32.04  32.23  -.20 1.32
 PKME 153.4 334 EPC0 918 58.12  24.00  23.83   .16 1.20               62  2.2
                ES 0  918 76.72  42.60  42.41   .16 1.20
   GGN 178.1  47 EPD0 919   .83  26.71  26.87  -.17 1.12               99  2.6
                ES 0  919 22.42  48.30  47.83   .46 1.11
   FFD 264.9 257 EP 0  919 11.80  37.68  37.59   .07  .86
                ES 0  919 40.50  66.38  66.91  -.56  .82
 LBNH 278.9 275 EP 0  919 13.39  39.27  39.32  -.11  .82
                ES 0  919 44.14  70.02  69.99  -.08  .82
   HRV 302.7 236 EP 0  919 17.90  43.78  42.26  1.50  .22
                ES 0  919 48.70  74.58  75.22  -.69  .68
A7311B.XX
SE OF NEW YORK, HUGHES & LUETGERT
07MAR11 NY, 40KM NW OF PLATTSBURGH
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
  70311  233 13.74 44-56.79  73-50.42  10.85  1.5  .0     49   .44   .7  1.4 C
  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG
 FRNY  23.4 122  P 0  233 17.32   3.58   3.97  -.42 1.46
                S 0  233 20.42   6.68   7.06  -.45 1.45
  MNT  64.1  15  P 0  233 23.51   9.77   9.96  -.21 1.36
                S 0  233 30.98  17.24  17.73  -.53 1.32
 LONY  69.1 238  P 0  233 24.33  10.59  10.71  -.19 1.35
                S 0  233 32.95  19.21  19.06   .03 1.35
 MSNY  80.8 274  P 0  233 26.17  12.43  12.48  -.06 1.32
                S 0  233 36.33  22.59  22.21   .36 1.30
  PTN  99.6 245  P 0  233 29.03  15.29  15.33  -.07 1.27
                S 0  233 41.48  27.74  27.29   .40 1.25
 ALFO 111.6 313  P 0  233 30.75  17.01  17.15  -.14 1.23
                S 0  233 43.98  30.24  30.53  -.29 1.22
  NCB 112.3 196  P 0  233 30.96  17.22  17.27  -.15 1.23
                S 0  233 44.60  30.86  30.74  -.06 1.23
  WBO 113.3 273  P 0  233 31.22  17.48  17.42   .06 1.23
                S 0  233 45.43  31.69  31.00   .67 1.14
  MOQ 131.3  72  P 0  233 34.17  20.43  20.16   .13 1.18
                S 0  233 50.31  36.57  35.88   .44 1.15
  TRQ 152.4 339  P 0  233 37.20  23.46  23.37   .09 1.12
                S 0  233 55.65  41.91  41.60   .32 1.10
  GAC 153.6 303  P 0  233 37.27  23.53  23.55  -.03 1.11
                S 0  233 55.97  42.23  41.92   .30 1.10
 LBNH 171.1 117  P 0  233 40.47  26.73  26.14   .54 1.03
                S 0  233 61.44  47.70  46.52  1.07  .77
 ACCN 174.1 175  P 0  233 41.11  27.37  26.58   .73  .97
                S 0  233 61.14  47.40  47.32  -.02 1.06
 CTNY 178.7 233  P 0  233 41.38  27.64  27.26   .35 1.03
                S 3  233 63.38  49.64  48.53  1.06  .19
   HNH 185.5 138 EP 0  233 41.32  27.58  28.25  -.70  .95   8 .13  1.7
                S 3  233 63.38  49.64  50.29  -.70  .24
 MPPO 192.5 264  P 0  233 43.13  29.39  29.29   .09 1.00
                S 0  233 65.48  51.74  52.13  -.42  .99
  DPQ 209.7  23  P 0  233 45.95  32.21  31.58   .60  .92
                S 0  233 70.08  56.34  56.21   .08  .96
 KGNO 225.3 249  S 4  233 71.15  57.41  59.64 -2.24  .00
   FFD 239.7 133 EP 4  233 52.27  38.53  35.29  3.23  .00
                S 3  233 78.12  64.38  62.81  1.54  .03
  GRQ 242.3 320  P 0  233 48.46  34.72  35.60  -.93  .73
                S 3  233 75.75  62.01  63.38 -1.45  .06
 PLVO 255.3 272  P 0  233 49.92  36.18  37.21 -1.03  .64
                S 3  233 77.84  64.10  66.23 -2.13  .00
 CRLO 302.1 294  P 0  233 55.60  41.86  42.98 -1.15  .43
                S 4  233 87.86  74.12  76.51 -2.44  .00
 QUA2 319.8 158  S 4  234 36.96  83.22  80.41  2.76  .00   2 .15  1.6
  WES 349.6 144  S 4  234 47.45  93.71  86.96  6.73  .00   1 .21  1.4
 PKME 359.8  84 EP 0  234  3.80  50.06  50.11  -.07  .53
                S 4  234 48.70  94.96  89.19  5.73  .00
  DAQ 390.2  31  S 4  234 45.38  91.64  95.89 -4.53  .00
HYPOINVERSE 2000
HUGHES AND LUETGERT NH
NH, 10KM SSW OF FRANKLIN
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
200703130521 55.51 43-20.86  71-40.06   3.16  1.4 2.0     161  0.31  1.9  2.8
 NSTA NPHS DMIN N.XMG N.FMG
   8  15  13.60   3   2
  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  FFD  13.6   4 EPC0 521 58.00   2.49   2.41  0.06 1.45                55  1.7 100
                S 1  521 58.69   3.18   4.29 -1.15 0.51
  HNH  63.9 309 EPC0 522  6.54  11.03  10.84  0.16 1.41 0.1 .20  1.2           73
                S 0  522 14.81  19.30  19.30 -0.05 1.41
  HRV  93.9 174  S 1  522 23.22  27.71  27.98 -0.32 1.02                      73
 LBNH 101.3 349 EPC0 522 12.43  16.92  16.92 -0.06 1.34                      73
                S 2  522 23.85  28.34  30.12 -1.88 0.00
  WES 110.6 165 EPC0 522 14.40  18.89  18.44  0.44 1.32 0.1 .15  1.3  82  2.4  73
                S 2  522 27.24  31.73  32.82 -1.11 0.36
 QUA2 131.3 206 EPC1 522 18.98  23.47  21.66  1.78 0.00 0.1 .60  1.8           66
                S 2  522 33.50  37.99  38.55 -0.62 0.63
 UCCT 178.5 196 EPC2 522 26.19  30.68  28.96  1.69 0.00                      46
                S 1  522 47.03  51.52  51.55 -0.08 0.83
  NCB 217.5 290 EPC2 522 31.24  35.73  33.78  1.85 0.00                      46
                S 1  522 56.05  60.54  60.13  0.23 0.72
A7321A.XX
HUGHES AND LUETGERT NH
07MAR21 NH, 9KM (5.6MI) E OF PLYMOUTH
FELT IN SANDWICH, PLYMOUTH AND ASHLAND
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
  70321 1555 37.95 43-45.44  71-34.76   8.84  2.6 2.7     100   .44   .7   .8 C
  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG
  FFD  32.5 191 EPC0 1555 43.80   5.85   5.65   .18 2.23               113  2.4
                ES 0 1555 48.02  10.07  10.06  -.02 2.23
  HNH  57.3 264 IPD0 1555 47.84   9.89   9.66   .20 2.12 418 .14  2.6 112  2.5
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                ES 0 1555 54.70  16.75  17.19  -.49 2.06
 LBNH  60.4 333  P 0 1555 47.83   9.88  10.16  -.34 2.09
                 S 0 1555 55.71  17.76  18.08  -.43 2.07
  VT1 113.8 304 EP 4 1555 49.89  11.94  18.67 -6.75  .00
                ES 4 1555 69.86  31.91  33.24 -1.36  .00
  WES 153.9 172 EP 0 1555 63.52  25.57  24.90   .66 1.62  82 .17  2.5 150  2.9
                ES 0 1555 81.58  43.63  44.32  -.71 1.58
 ACCN 173.7 256  P 0 1556  5.79  27.84  27.76   .01 1.62
                 S 2 1556 26.58  48.63  49.42  -.90  .68
  WVL 175.6  61 EP 0 1555 66.20  28.25  28.00   .24 1.61  94 .17  2.6
                ES 0 1555 87.23  49.28  49.84  -.58 1.55
 QUA2 175.9 201 EPD0 1555 65.59  27.64  28.04  -.43 1.58 120 .17  2.7 139  2.9
                ES 0 1555 87.65  49.70  49.91  -.27 1.60
  MOQ 180.9 343  P 0 1556  6.89  28.94  28.66   .14 1.59
                 S 0 1556 28.35  50.40  51.01  -.86 1.39
 FRNY 200.1 307  P 0 1556  9.31  31.36  31.03   .29 1.51
                 S 0 1556 33.53  55.58  55.23   .28 1.51
 BRYW 204.2 179 EP 2 1555 71.24  33.29  31.53  1.70  .06  54 .11  2.6
                ES 0 1555 94.16  56.21  56.12  -.02 1.49
  TRY 204.4 236 EP 3 1555 70.86  32.91  31.56  1.30  .18  40 .15  2.4
                ES 0 1555 94.26  56.31  56.17   .05 1.49
  NCB 213.7 276  P 0 1556 11.15  33.20  32.71   .39 1.43
                 S 0 1556 36.47  58.52  58.23   .11 1.45
 UCCT 224.4 194  P 0 1556 11.93  33.98  34.03  -.08 1.40
                 S 0 1556 38.46  60.51  60.57  -.11 1.40
 PKME 247.3  47 EP 0 1556 14.50  36.55  36.85  -.33 1.29              155  3.0
                ES 0 1556 44.15  66.20  65.60   .56 1.26
  MNT 252.9 320  P 0 1556 15.20  37.25  37.54  -.31 1.27
                 S 0 1556 45.02  67.07  66.82   .21 1.28
 LONY 258.5 292  P 0 1556 16.76  38.81  38.24   .50 1.22
                 S 0 1556 46.07  68.12  68.06  -.07 1.26
  PTN 286.6 288  P 0 1556 20.05  42.10  41.71   .36 1.12
                 S 0 1556 52.54  74.59  74.24   .29 1.14
 CTNY 327.7 274  P 0 1556 25.29  47.34  46.78   .53  .93
                 S 0 1556 61.78  83.83  83.27   .51  .93
 ALFO 334.4 308  P 0 1556 26.17  48.22  47.61   .61  .89
                 S 0 1556 61.78  83.83  84.75  -.92  .78
  DPQ 338.2 344  P 0 1556 26.88  48.93  48.08   .82  .82
                 S 0 1556 63.26  85.31  85.58  -.32  .90
 EMMW 346.1  72 EP 0 1556 27.40  49.45  49.05   .39  .87  50 .20  2.9
                ES 4 1556 71.50  93.55  87.30  6.23  .00
  TRQ 360.7 319  P 3 1556 29.86  51.91  50.85  1.05  .16
                 S 2 1556 67.65  89.70  90.52  -.82  .36
  GAC 377.2 305  P 3 1556 31.82  53.87  52.89   .97  .15
                 S 2 1556 71.13  93.18  94.15  -.99  .29
 MPPO 390.5 287  P 3 1556 33.36  55.41  54.53   .86  .15
                 S 0 1556 75.34  97.39  97.06   .29  .69
 BINY 399.1 244  P 0 1556 34.00  56.05  55.59   .37  .64
                 S 4 1556 74.97  97.02  98.96 -2.08  .00
  GGN 408.0  68  P 2 1556 34.05  56.10  56.70  -.61  .29
                 S 4 1556 76.27  98.32 100.92 -2.62  .00
  A54 421.1  12  P 0 1556 36.75  58.80  58.32   .42  .55
                 S 3 1556 80.00 102.05 103.80 -1.86  .00
  LMQ 432.5  13  P 0 1556 37.65  59.70  59.72  -.09  .51
                 S 4 1556 81.90 103.95 106.30 -2.48  .00
 PECO 436.2 273  P 3 1556 39.26  61.31  60.18  1.11  .08
  A61 452.6  15  P 3 1556 41.62  63.67  62.20  1.41  .03
 PLVO 460.4 288  P 3 1556 42.15  64.20  63.17  1.03  .07
                 S 3 1556 89.33 111.38 112.44 -1.06  .07
  GRQ 461.9 313  P 3 1556 43.11  65.16  63.35  1.75  .01
                 S 3 1556 89.28 111.33 112.77 -1.53  .01
  A21 462.7  19  P 4 1556 43.67  65.72  63.44  2.26  .00
  DAQ 468.3   3  P 0 1556 42.17  64.22  64.14  -.09  .35
                 S 4 1556 89.96 112.01 114.18 -2.45  .00
  A64 470.9  16  P 3 1556 43.72  65.77  64.46  1.29  .04
 CRLO 523.6 299  P 3 1556 49.92  71.97  70.96   .97  .02
 WLVO 549.0 272  P 4 1556 55.07  77.12  74.10  3.01  .00
 BATG 582.4  48  P 0 1556 56.35  78.40  78.22   .12  .00
  LMN 584.3  67  P 0 1556 56.45  78.50  78.46  -.02  .00
 SADO 613.9 281  P 0 1557   .52  82.57  82.11   .42  .00
                 S 3 1557 62.35 144.40 146.16 -1.83  .00
  HAL 646.0  81  S 3 1557 72.04 154.09 153.21   .86  .00
 VLDQ 664.9 317  P 4 1557 12.12  94.17  88.42  5.73  .00
  EEO 670.4 299  P 0 1557  7.23  89.28  89.09   .12  .00
                 S 4 1557 74.15 156.20 158.58 -2.51  .00
 RSPO 695.6 292  P 4 1557 12.38  94.43  92.19  2.19  .00
 CLWO 702.6 276  P 3 1557 12.65  94.70  93.07  1.55  .00
  GBN 820.0  77  S 0 1558 48.94 190.99 191.46  -.49  .00
A7323A.XX
HUGHES AND LUETGERT NH
07MAR23 NH, 15KM (9.3MI) NE OF CLAREMONT
  DATE     ORIGIN     LAT N     LONG W    DEPTH    MN  MC  ML GAP    RMS  ERH  ERZ Q
  70323   836 20.13 43-27.51  72-12.30    9.25    .8  .0      104    .44  1.6  2.5 C
  STN  DIST AZM  RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
  HNH  28.2 347 EPD0  836 25.42    5.29    4.98    .29 1.52   7 .08    .6
                ES 0  836 28.66    8.53    8.86   -.38 1.51
  FFD  44.6  88 EPD0  836 28.01    7.88    7.61    .26 1.47
                ES 0  836 33.35   13.22   13.54   -.35 1.46
 LBNH  89.7  15 EP 1  836 35.82   15.69   14.92    .71  .95
                ES 1  836 45.91   25.78   26.55   -.88  .85
  HRV 118.2 154 EP 0  836 39.82   19.69   19.34    .32 1.25
                ES 0  836 54.46   34.33   34.42   -.14 1.26
 QUA2 131.6 185 EP 0  836 41.29   21.16   21.41   -.28 1.21   2 .10   .9
                ES 0  836 58.08   37.95   38.12   -.22 1.22
  WES 139.4 149 EPD3  836 44.27   24.14   22.63   1.51  .07   2 .11  1.0
                ES 0  836 60.80   40.67   40.27    .38 1.18
  NCB 172.4 289 EP 0  836 48.30   28.17   27.57    .50 1.08
                ES 3  836 68.16   48.03   49.07 -1.22  .15
 UCCT 184.9 181 ES 1  836 71.67   51.54   51.81   -.32  .79
 LONY 230.3 304 ES 3  836 83.64   63.51   61.78   1.61  .03
```

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TABLE 5

MICROEARTHQUAKES AND OTHER NON-LOCATABLE EVENTS

Date Yr/Mo/Dy	Sta	Arrival Time Hr:Mn:Sec

None recorded this period.		

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NESN Station Map

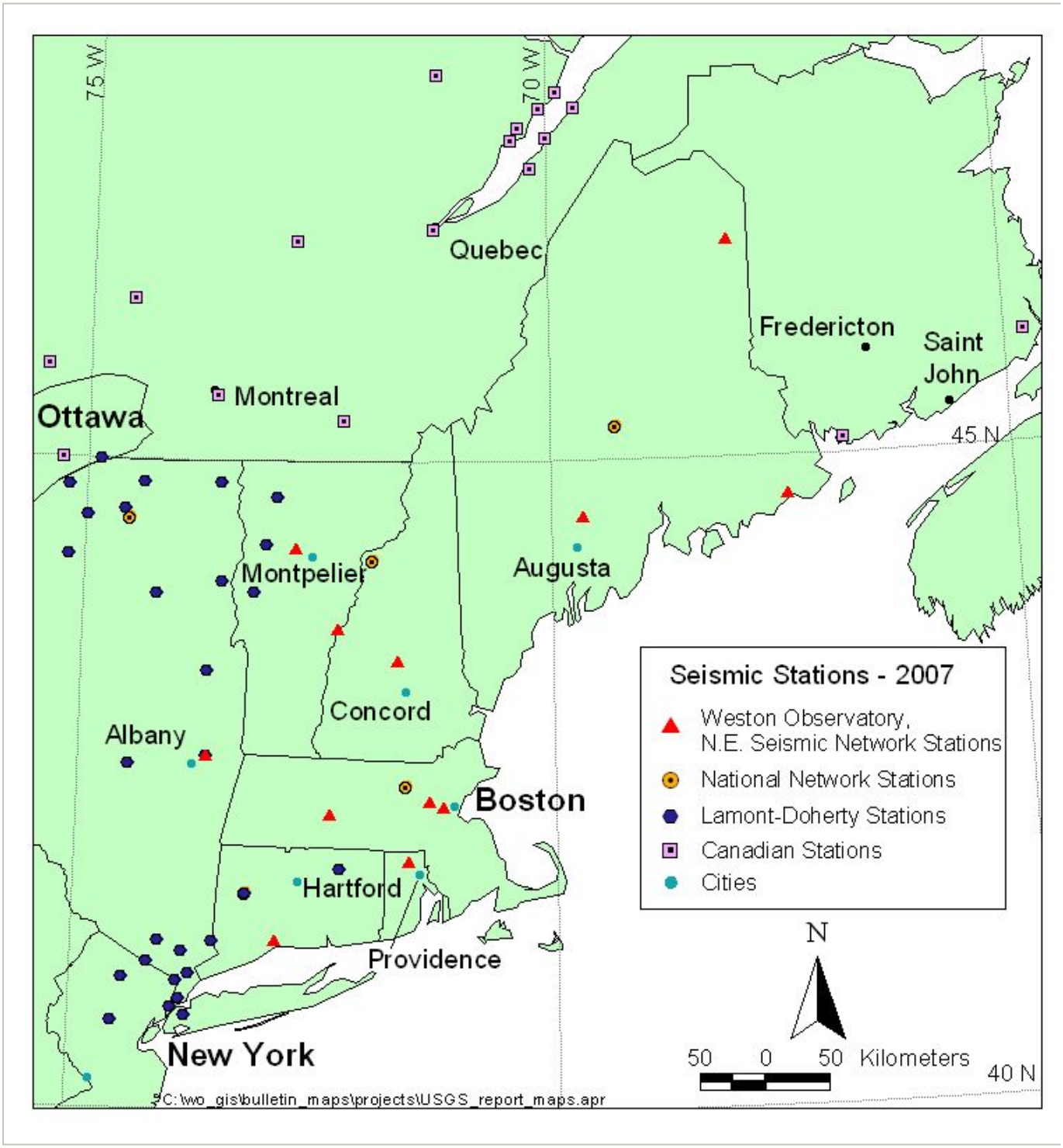

Figure 1: Map of stations of the New England Seismic Network (NESN) in operation during the period of this report. Also included are other Northeast U.S. and Canadian seismic stations in operation during this period.

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NESN Strong-Motion Station Map

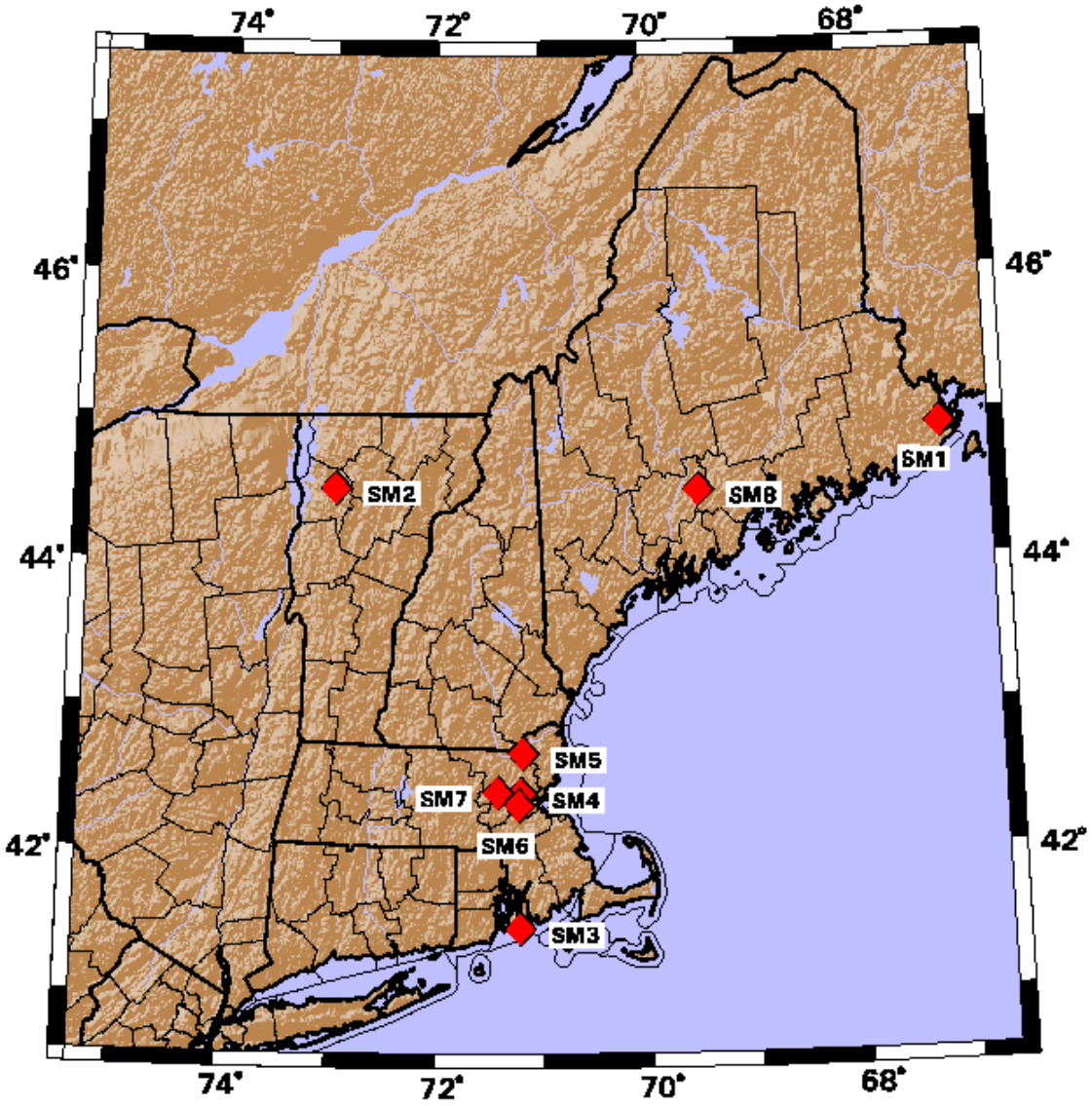

Figure 2: Map of strong-motion stations of the New England Seismic Network (NESN) in operation during the period of this report.

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NESN Quarterly Seismicity Map

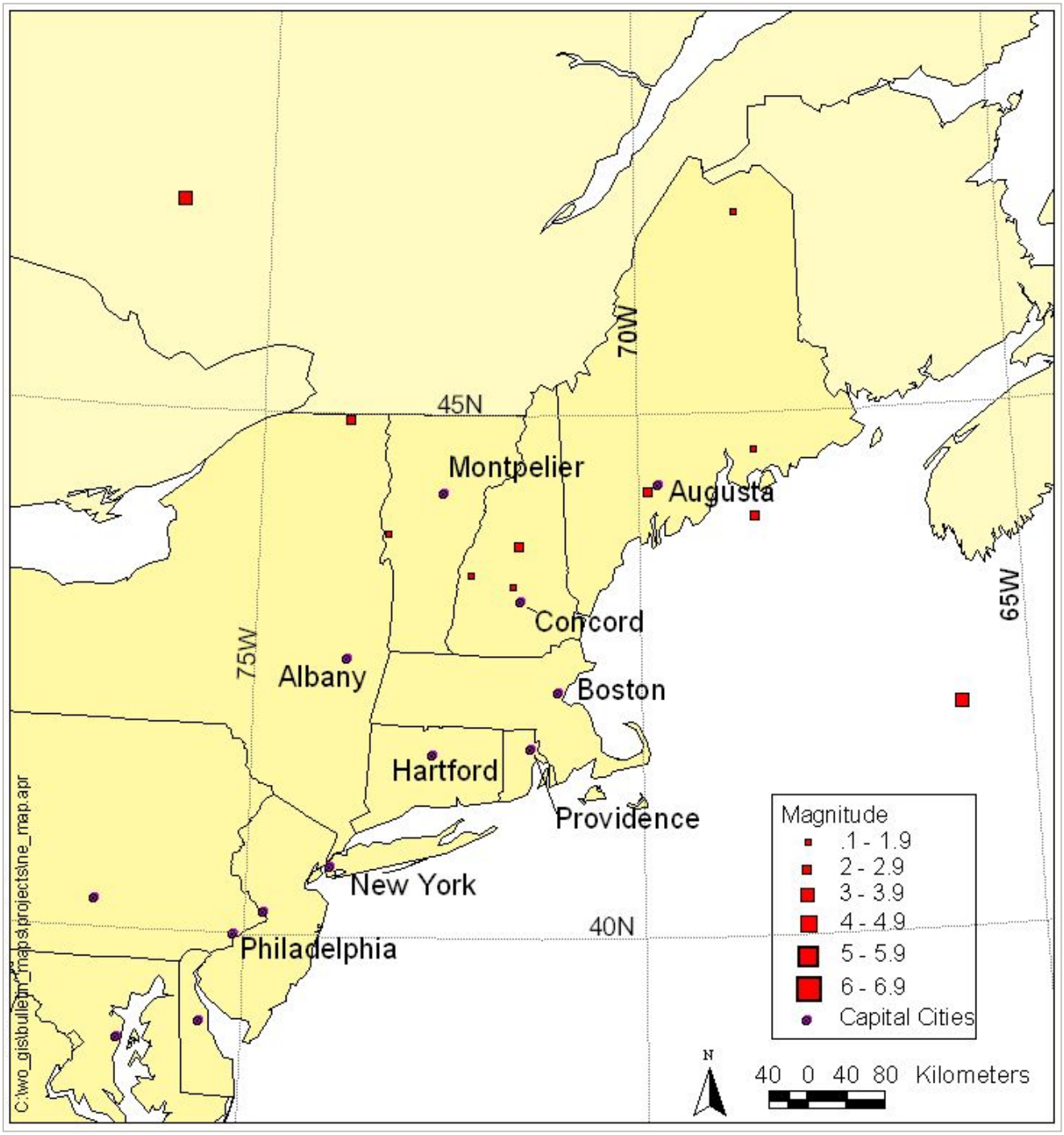

Figure 3: Earthquake epicenters located by the NESN during the period of this report.

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NESN Cumulative Seismicity Map

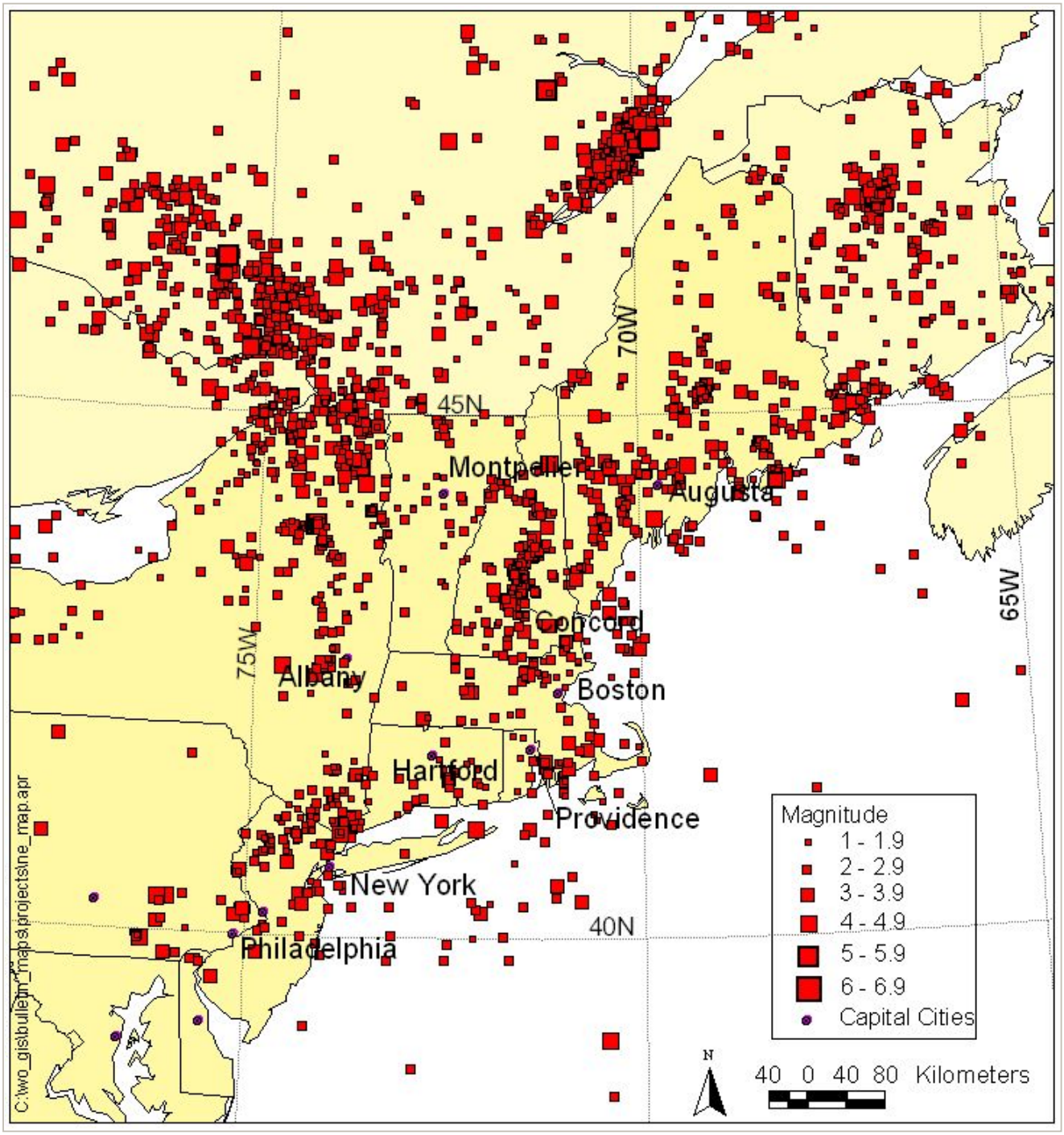

Figure 4: Seismicity for period October, 1975 - March, 2007.

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Acknowledgments

Our map database has been developed in-house using ArcView and in part basemap data provided by ESRI, Inc., USGS GTOPO30 Elevation Data, and TIGER/Line '94, '95, and '97 (US Census Bureau) spatial data.

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